

Fig. 1

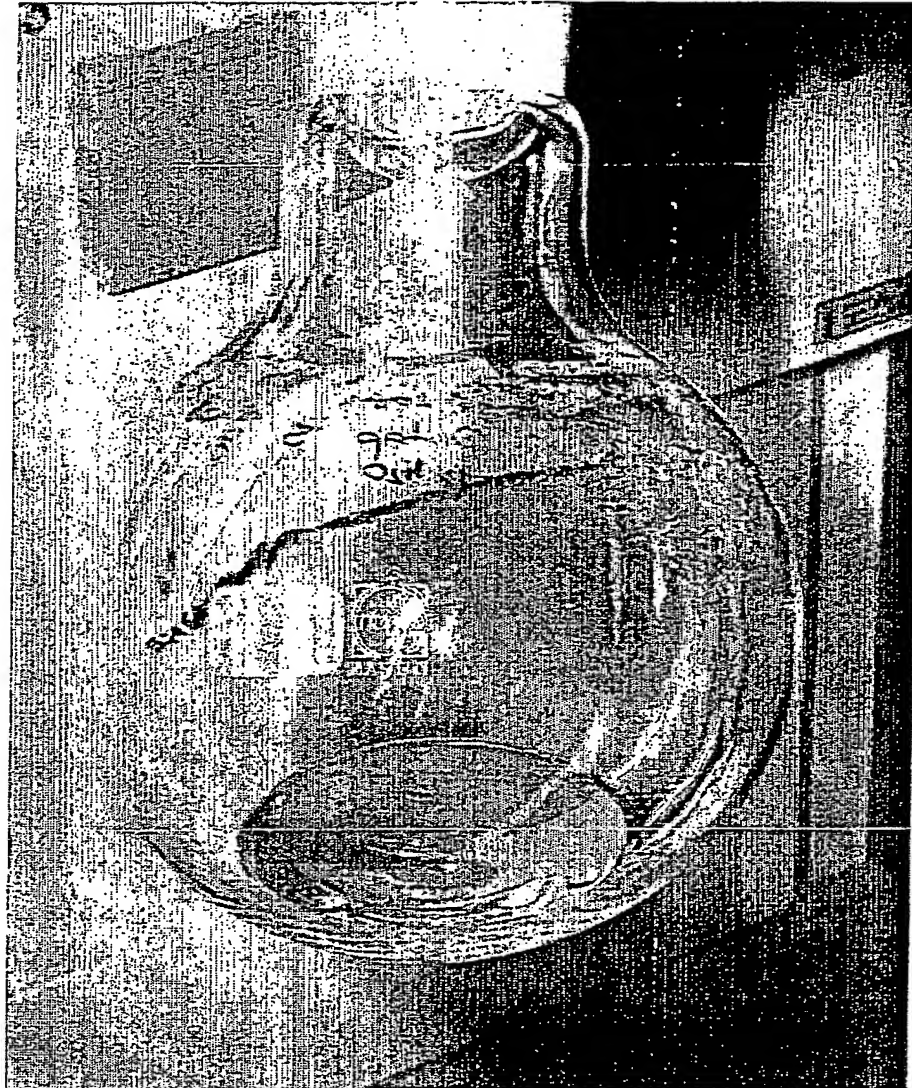


Fig. 2

BEST AVAILABLE COPY

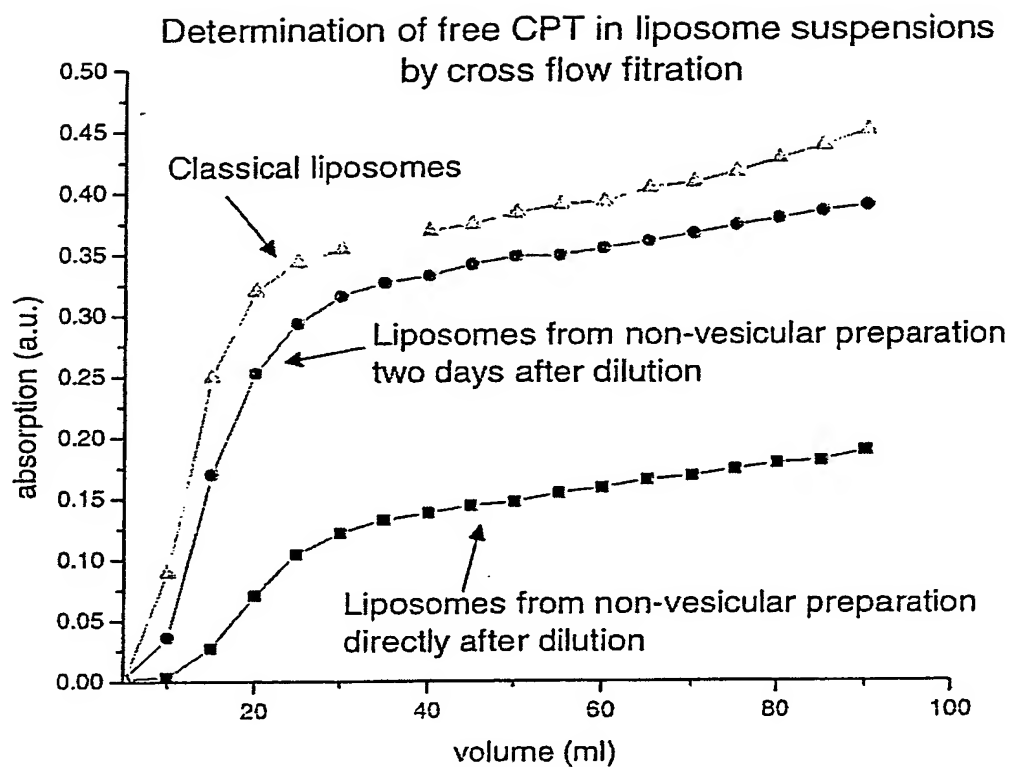


Fig. 3

## Sedimentation velocity experiment

| sample parameters |             | run parameters      |           | data selection     |           |
|-------------------|-------------|---------------------|-----------|--------------------|-----------|
| cell              | mlt         | run                 | 482       | radius             | 6.035 cm  |
| cell              | UF60        | cell                | 3         | cell               | 7.104 cm  |
| cell              | water       | cell                | 09/11/02  | cell               | 6.087 cm  |
| cell              | Int@675nm   | cell                | 12        | right diameter     | 7.087 cm  |
| cell              | Freund      | cell                | 12        | left diameter      | 1         |
| cell              | Schilling   | cell                | 0.491 GHz | left radius        | 12        |
| boundary analysis |             | pressure correction |           | solvent properties |           |
| cell              | 0.7259 S    | pressure            | 0.1e0/Pa  | sol. density       | 1.02 g/ml |
| cell              | 0 GHz       | cell                | 0         | sol. viscosity     | 0.0115 P  |
| cell              | -600.74 m/s | cell                | 0         | part density       | 1.01 g/ml |
| cell              | -83.384 S   | cell                | 0 m/s     | frict. coeff.      | 1.30      |

run 482/3, scan 00001 of 09/11/02, 13:28:45 at T=293 K, 10000 rpm, 2947 s,  $\omega_1 = 1.094$  GHz, Int @ 675 nm  
 run 482/3, scan 00002 of 09/11/02, 13:36:06 at T=293 K, 10000 rpm, 3500 s,  $\omega_1 = 2.503$  GHz, Int @ 675 nm  
 run 482/3, scan 00003 of 09/11/02, 13:43:08 at T=293 K, 10000 rpm, 4047 s,  $\omega_1 = 3.101$  GHz, Int @ 675 nm  
 run 482/3, scan 00004 of 09/11/02, 13:54:13 at T=293 K, 10000 rpm, 4593 s,  $\omega_1 = 3.700$  GHz, Int @ 675 nm  
 run 482/3, scan 00005 of 09/11/02, 14:03:17 at T=293 K, 10000 rpm, 5133 s,  $\omega_1 = 4.202$  GHz, Int @ 675 nm  
 run 482/3, scan 00006 of 09/11/02, 14:12:22 at T=293 K, 10000 rpm, 5678 s,  $\omega_1 = 4.691$  GHz, Int @ 675 nm  
 run 482/3, scan 00007 of 09/11/02, 14:21:31 at T=293 K, 10000 rpm, 6228 s,  $\omega_1 = 5.492$  GHz, Int @ 675 nm  
 run 482/3, scan 00008 of 09/11/02, 14:30:40 at T=293 K, 10000 rpm, 6776 s,  $\omega_1 = 6.095$  GHz, Int @ 675 nm  
 run 482/3, scan 00009 of 09/11/02, 14:39:49 at T=293 K, 10000 rpm, 7323 s,  $\omega_1 = 6.694$  GHz, Int @ 675 nm  
 run 482/3, scan 00010 of 09/11/02, 14:46:57 at T=293 K, 10000 rpm, 7871 s,  $\omega_1 = 7.295$  GHz, Int @ 675 nm  
 run 482/3, scan 00011 of 09/11/02, 14:58:04 at T=293 K, 10000 rpm, 8416 s,  $\omega_1 = 7.894$  GHz, Int @ 675 nm  
 run 482/3, scan 00012 of 09/11/02, 15:07:08 at T=293 K, 10000 rpm, 8960 s,  $\omega_1 = 8.491$  GHz, Int @ 675 nm

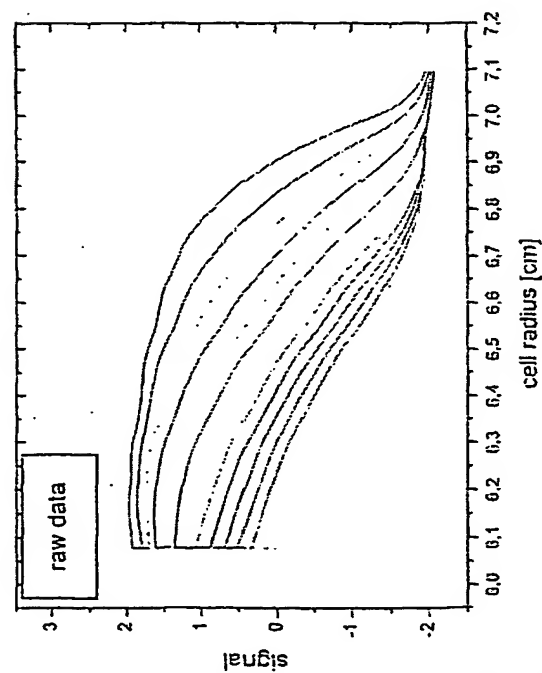
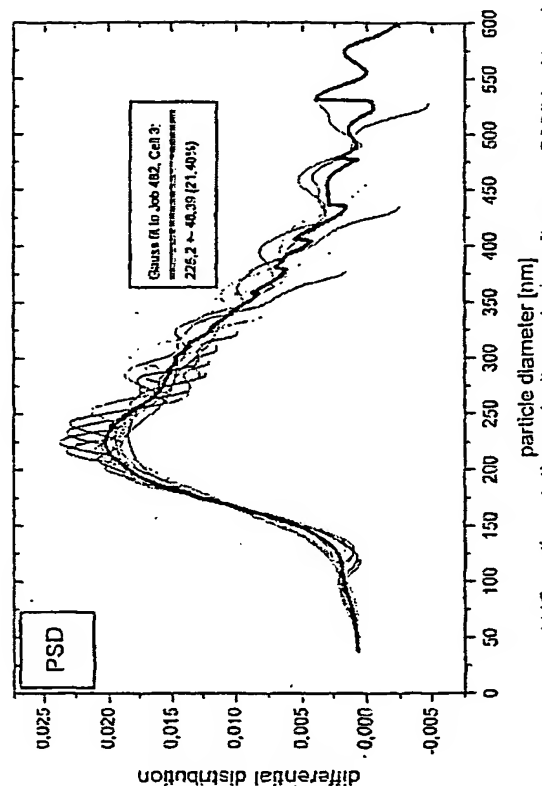
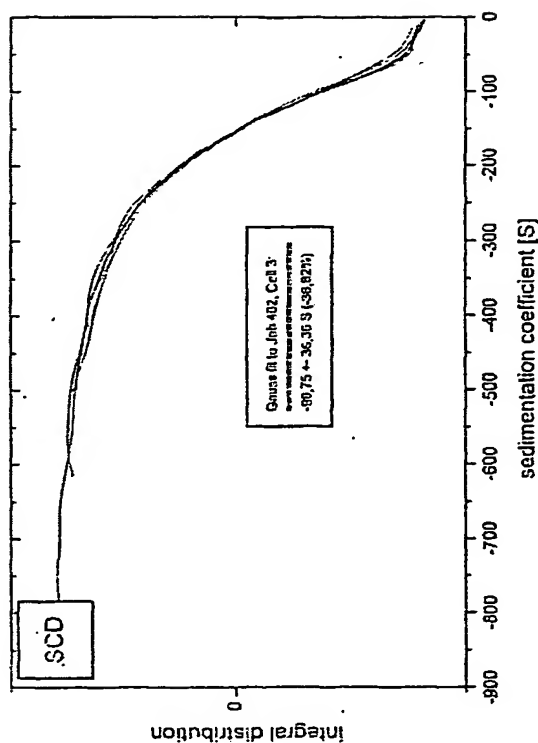


Fig. 4



particle diameter [nm]  
AUC sedimentation velocity analysis software © 2002 by Nanalytics

# Sedimentation velocity experiment

| sample parameters |              | run parameters      |           | data selection     |           |
|-------------------|--------------|---------------------|-----------|--------------------|-----------|
| customer          | mbi          | run                 | 484       | meniscus           | 8,060 cm  |
| sample            | UF62         | cell                | 3         | bottom             | 7,105 cm  |
| solvent           | water        | date                | 09/13/02  | left clipping      | 6,413 cm  |
| cell              | int@675nm    | # of scans          | 55        | right clipping     | 7,010 cm  |
| cell type         | Friend       | scans used          | 55        | first scan         | 1         |
| cell volume       | Schilling    | max integral        | 15.40 GHz | last scan          | 55        |
| boundary analysis |              | pressure correction |           | solvent properties |           |
| thick cell        | -69.746 s    | pinima              | 0.169 Pa  | sol. density       | 1.02 g/ml |
| thick integral    | -0.3383 GHz  | m                   | 0         | sol. viscosity     | 0.0115 P  |
| mean velocity     | -474.29 nm/s | l1                  | 0         | part density       | 1.01 g/ml |
| ref. cell         | -65.042 s    | ks                  | 0 ml/g    | l1 ratio           | 1.30      |

run 4842, scan 00001 of 09/13/02, 13:47:25 at T=298 K, 10000 rpm, 2301 s,  $\omega_1 = 1.204$  GHz, int @ 675 nm  
 run 4842, scan 00002 of 09/13/02, 13:51:15 at T=298 K, 10000 rpm, 2533 s,  $\omega_1 = 1.458$  GHz, int @ 675 nm  
 run 4842, scan 00003 of 09/13/02, 13:55:14 at T=298 K, 10000 rpm, 2768 s,  $\omega_1 = 1.713$  GHz, int @ 675 nm  
 run 4842, scan 00004 of 09/13/02, 13:59:16 at T=298 K, 10000 rpm, 3012 s,  $\omega_1 = 1.963$  GHz, int @ 675 nm  
 run 4842, scan 00005 of 09/13/02, 14:03:16 at T=298 K, 10000 rpm, 3252 s,  $\omega_1 = 2.248$  GHz, int @ 675 nm  
 run 4842, scan 00006 of 09/13/02, 14:07:16 at T=298 K, 10000 rpm, 3488 s,  $\omega_1 = 2.505$  GHz, int @ 675 nm  
 run 4842, scan 00007 of 09/13/02, 14:11:18 at T=298 K, 10000 rpm, 3734 s,  $\omega_1 = 2.772$  GHz, int @ 675 nm  
 run 4842, scan 00008 of 09/13/02, 14:15:17 at T=298 K, 10000 rpm, 3973 s,  $\omega_1 = 3.036$  GHz, int @ 675 nm  
 run 4842, scan 00009 of 09/13/02, 14:19:17 at T=298 K, 10000 rpm, 4212 s,  $\omega_1 = 3.298$  GHz, int @ 675 nm  
 run 4842, scan 00010 of 09/13/02, 14:23:16 at T=298 K, 10000 rpm, 4445 s,  $\omega_1 = 3.554$  GHz, int @ 675 nm  
 ... 43 more scans  
 run 4842, scan 00055 of 09/13/02, 17:23:31 at T=298 K, 10000 rpm, 15247 s,  $\omega_1 = 15.40$  GHz, int @ 675 nm

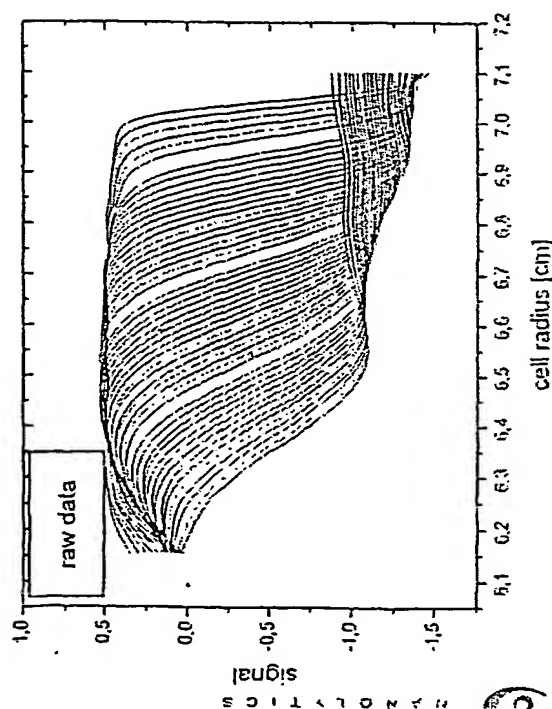
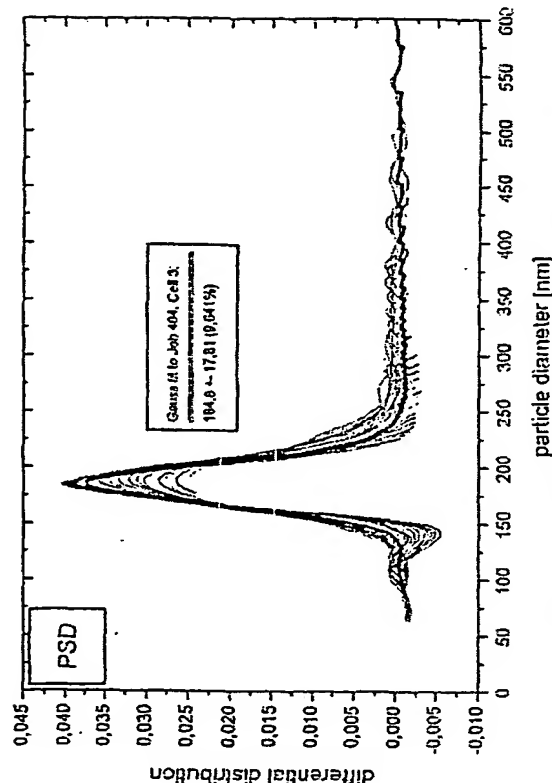
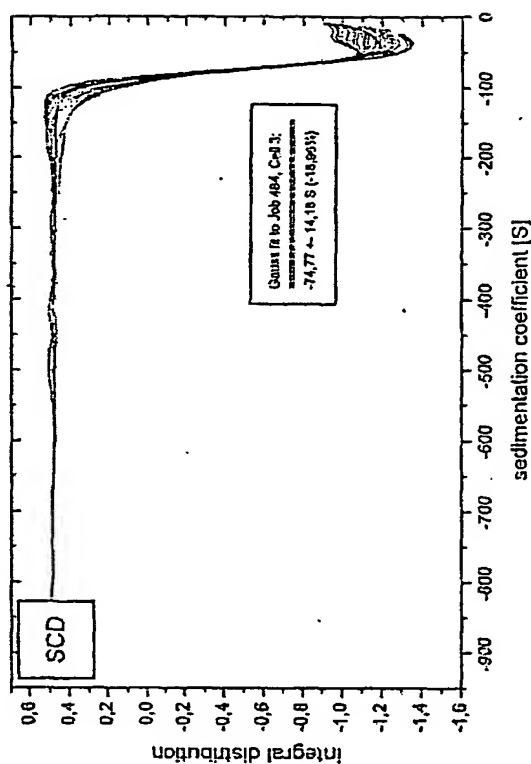


Fig. 4 (Continued)



AUC sedimentation velocity analysis software © 2002 by Nanolytic

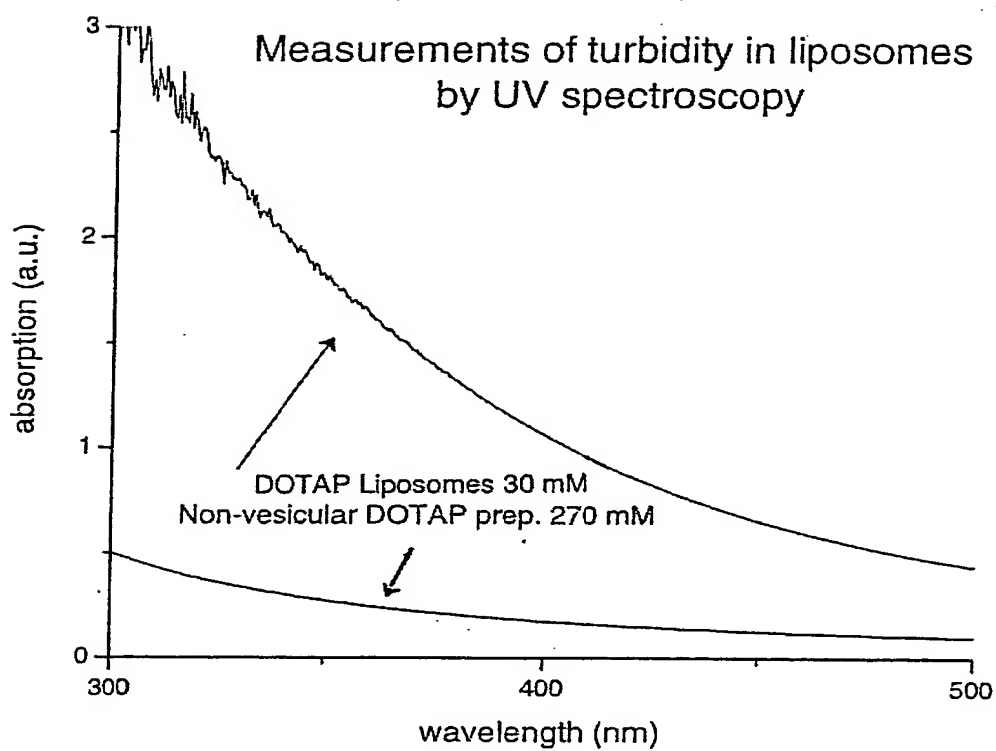


Fig. 5